



US Army Corps of Engineers

Institute for Water Resources

BUILDING STRONG®

Flood Damage Data Collection Program (2011)

Status: **Project Manager:**

In Progress [Stuart Davis](#)

Purpose: The purpose of the Flood Damage Data Collection Program (FDDC) is to provide economists and other analyst with tools to more accurately and efficiently estimate the economic impacts of flooding by collecting primary data, providing analysis, and supplying analytical tools as determined by soliciting information from Corps of Engineer economists.

Objective: The FDDC Program is intended to provide information and tools to analysts for evaluating flood risks to property and for estimating the economic benefits of flood damage reduction. The FDDC is designed compile generic damage relationships, estimation models, and data collection tools for organizing floodplain inventory data.

Benefits: This program will enable Corps of Engineer districts and communities applying for FEMA Hazard Mitigation grants to more accurately and efficiently estimate the economic consequences of flooding. Field analysts will not have to collect their own basic data, make their own detailed analyses of damage relationships, or invent their own tools for collecting and managing data.

Progress: Progress: Over 1,500 residential flood victims and several hundred nonresidential businesses have been surveyed to obtain information needed for computing residential and nonresidential structure and content damage functions. Residential damage functions have been published in economic guidance memorandums. A floodplain inventory tool has been released, with a training completed. The model is being retooled with a new structure valuation model.

A damage estimation model has been estimated for flood damage to roads, along with a background report on the costs of road repair. Damage functions are soon to be completed for a flood damage to roads model to be incorporated into HEC-FRM.

Work has been initiated on a design document for estimating flood damage to roads. Damage relationships have been computed cleanup costs, and damage to vehicles. An EGM has been published for Flood Damage to Vehicles.

A data collection has been completed for Cedar Rapids and Iowa City, Iowa and a collection is planned for Nashville, Tennessee.

A draft report on clean up costs is in progress.

A follow up expert elicitation soon to take place to finalize nonresidential damage functions.

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